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The biomechanical outcome after total hip replacement

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APPENDIX A

List of Publications during the making of this thesis

peer-review

- **Weber T**, Dendorfer S, Grifka J, Verkerke GJ, Renkawitz T: Does computer-assisted Femur First THR improve musculoskeletal loading conditions? (accepted in *BioMed Research International*¹)
- **Weber T**, Al-Munajjed AA, Verkerke GJ, Dendorfer S, Renkawitz T: Influence of minimally invasive total hip replacement on hip reaction forces and their orientations. *J Orthop Res*. 2014 Dec 13;32(12):16807.
- **Weber T**, Dendorfer S, Dullien S, Grifka J, Verkerke GJ, Renkawitz T: Measuring functional outcome after total hip replacement with subject-specific hip joint loading. *Inst Mech Eng Part H Eng Med* 2012, Special Is:18.
- **Weber T**, Renkawitz T, Bulstra S, Grifka J, Verkerke GJ, Dendorfer S: Quantifying the subjective and objective outcome after Total Hip Replacement - a systematic review. (submitted in *Orthopedics*)
- **Weber T**, Dendorfer S, Dullien S, Grifka J, Verkerke GJ, Renkawitz T: Gait six month and one-year after computer assisted Femur First THR vs. conventional THR. Results of a patient- and observer- blinded randomized controlled trial. (submitted in *Gait and Posture*)
- Dendorfer S, **Weber T**, Kennedy O: Musculoskeletal modeling for hip replacement outcome analyses and other applications. *J Am Acad Orthop Surg*. 2014;22(4):268-9.
- Renkawitz T, Weber M, **Weber T**, Springorum R, Sendtner E, Ulm K, Woerner M, Grifka J: Impingement-free range of motion, cup coverage and early clinical results between femur first navigation and conventional total hip arthroplasty: a randomised controlled trial. (accepted in *Journal of Bone and Joint Surgery*)
- Weber M, **Weber T**, Woerner M, Craiovan B, Worlicek M, Winkler S, Grifka J, Renkawitz T: The impact of standard combined anteversion definitions on gait and clinical outcome within one year after total hip arthroplasty. (accepted in *International Orthopaedics*)

¹early access in <http://www.hindawi.com/journals/bmri/aa/625317/>

Talks

- **Weber T**, Dendorfer S, Grifka J, Bulstra SK, Verkerke GJ, Renkawitz T: Biomechanical outcome after computer-assisted vs. conventional THR. Forschungssymposium, Lehrstuhl für Orthopaedie, Bad Abbach, Germany, 2014 *invited*
- **Weber T**, Dendorfer S, Grifka J, Bulstra SK, Verkerke GJ, Renkawitz T: Biomechanical outcome after computer-assisted vs. conventional THR. ANSYS Users Meeting, Nuernberg, Germany, 2014 *invited*
- **Weber T**, Dullien S, Putzer M, Dendorfer S, Renkawitz T: Biomechanical outcome after computer-assisted vs. conventional THR study concept and preliminary gait analysis results. GAMMA Workshop, Hannover, Germany, 2012 *invited*
- **Weber T**, Stezowski P, Dullien S, Putzer M, Dendorfer S; Eine biomechanische Bewertung verschiedener Belastungsszenarien nach Implantierung einer Hüft-Totalendoprothese [A biomechanical evaluation of different load scenarios after implantation of a total hip replacement]. GAMMA Workshop, Hannover, Germany, 2012 *invited*

Poster

- **Weber T**, Dendorfer S, Grifka J, Bulstra SK, Verkerke GJ, Renkawitz T: Navigated Femur First Total Hip Arthroplasty leads to improved biomechanical outcome after surgery. ORS Annual Meeting 2015, 28. - 31. March 2015, Las Vegas, USA
- **Weber T**, Dullien S, Grifka J, Renkawitz T, Dendorfer S: Validation of a motion capture laboratory and a new marker placement protocol for clinical applications. Gait Posture 2013, 38:S113S114.
- Al-Munajjed AA, Trholm S, **Weber T**, Kiis A, Rasmussen J: Influence of acetabular cup positioning on muscle activation and joint reaction forces during daily activities. Gait Posture 2013, 38.
- **Weber T**, Stezowski P, Dullien S, Dendorfer S: Eine biomechanische Bewertung verschiedener Belastungsszenarios nach der Implantierung einer Hüft-Totalendoprothese [A biomechanical evaluation of different load scenarios after implantation of a total hip replacement], 89. Jahrestagung der Vereinigung der Bayerischen Chirurgen e.V. 25.-27. July 2012, Regensburg, Germany

APPENDIX B

SHARE - previous dissertations

Research Institute SHARE

This thesis is published within the Research Institute SHARE (Science in Healthy Ageing and healthcaRE) of the University Medical Center Groningen / University of Groningen. Further information regarding the institute and its research can be obtained from our internetsite: <http://www.share.umcg.nl/>

More recent theses can be found in the list below. ((co-) supervisors are between brackets)

2015

Hielkema M

The value of a family-centered approach in preventive child healthcare
(prof SA Reijneveld, dr A de Winter)

Dul EC

Chromosomal abnormalities in infertile men and preimplantation embryos
(prof JA Land, prof CMA van Ravenswaaij-Arts)

Heeg BMS

Modelling chronic diseases for reimbursement purposes
(prof MJ Postma, prof E Buskens, prof BA van Hout)

Vries, ST de

Patient perspectives in the benefit-risk evaluation of drugs
(prof P Denig, prof FM Haaijer-Ruskamp, prof D de Zeeuw)

Zhu L

Patterns of adaptation to cancer during psychological care
(prof AV Ranchor, prof R Sanderman, dr MJ Schroevers)

Peters LL

Towards tailored elderly care with self-assessment measures of frailty and case complexity
(prof E Buskens, prof JPJ Slaets, dr H Boter)

Vart P

Prevention of chronic kidney disease and its consequences; the role of socioeconomic status
(prof SA Reijneveld, prof U Bueltmann, prof RT Gansevoort)

Mutsaerts M

Lifestyle and reproduction

(prof JA Land, prof BW Mol, dr A Hoek, dr H Groen)

Sulkers E

Psychological adaptation to childhood cancer

(prof R Sanderman, prof PF Roodbol, prof ESJM de Bont, dr J Fleeer, dr WJE Tissing)

Febrianna SA

Skin problems related to Indonesian leather & shoe production and the use of footwear in Indonesia

(prof PJ Coenraads, prof H Soebono, dr MLA Schuttelaar)

2014

Schneeberger C

Asymptomatic bacteriuria and urinary tract infections in women: focus on diabetes mellitus and pregnancy

(prof RP Stolk, prof JJHM Erwich, dr SE Geerlings)

Skorvanek M

Fatigue, apathy and quality of life in patients with Parkinsons disease

(prof JW Groothoff, prof Z Gdovinova, dr JP van Dijk, dr J Rosenberger)

Kolvek G

Etiology and prognosis of chronic kidney disease in children: Roma ethnicity and other risk factors

(prof SAREijneveld, prof L Podracka, dr JP van Dijk, dr J Rosenberger)

Mikula P

Health related quality of life in people with multiple sclerosis; the role of coping, social participation and self-esteem

(prof JW Groothoff, prof Z Gdovinova, dr JP van Dijk, dr I Nagyova)

Amalia R

Improving a school-based dental programme through a sociodental risk group approach

(prof RMH Schaub, prof JW Groothoff, prof N Widyanti)

Christoffers WA

Hand eczema; interventions and contact allergies

(prof PJ Coenraads, dr MLA Schuttelaar)

Troquete NAC

START-ing risk assessment and shared care planning in out-patient forensic psychiatry; results from a cluster randomized controlled trial

(prof D Wiersma, prof RA Schoevers, dr RHS van den Brink)

Golea E

Functioning of young individuals with upper limb reduction deficiencies

(prof CK van der Sluis, dr RM Bongers, dr HA Reinders-Messelink)

Nguyen HT

Medication safety in Vietnamese hospitals; a focus on medication errors and safety culture

(prof K Taxis, prof FM Haaijer-Ruskamp, prof JRGB Brouwers, dr TD Nguyen)

Lehmann V

Singlehood and partnerships in healthy people and childhood cancer survivors; a focus on satisfaction

(prof M hagedoorn, prof R Sanderman, dr MA Tuinman)

Jaarsma EA

Sports participation and physical disabilities: taking the hurdle?!
(prof JHB Geertzen, prof PU Dijkstra, dr R Dekker)

Ockenburg SL van

Psychological states and physical fates; studying the role of psychosocial stress in the etiology of cardiovascular disease: a nomothetic versus an idiographic approach
(prof JGM Rosmalen, prof P de Jonge, prof ROB Gans)

Beijers CGHM

Unhealthy behaviors during pregnancy; who continues to smoke and consume alcohol, and is treatment of anxiety and depressive symptoms effective?
(prof J Ormel, prof CLH Bockting, dr H Burger)

Kerdijk W

Strategic choices in curriculum design to facilitate knowledge and competency development
(prof J Cohen-Schotanus, prof JW Snoek, dr R Tio)

Spaans F

Hemopexin activity and extracellular ATP in the pathogenesis of preeclampsia
(prof H van Goor, dr MM Faas, dr WW Bakker)

Brinksma A

Nutritional status in children with cancer
(prof PF Roodbol, prof R Sanderman, prof ESJM de Bont, dr WJE Tissing)

Prihodova L

Psychological and medical determinants of long-term patient outcomes; a specific focus on patients after kidney transplantation and with haemophilia
(prof JW Groothoff, dr JP van Dijk, dr I Rajnicova-Nagyova, dr J Rosenberger)

Snippe E

Understanding change in psychological treatments for depressive symptoms; the individual matters
(prof R Sanderman, prof PMG Emmelkamp, dr MJ Schroevers, dr J Flier)

Groen B

Complications in diabetic pregnancy; role of immunology and Advanced Glycation End products
(prof TP Links, prof PP van den Berg, dr MM Faas)

Visser L

Early detection and prevention of adolescent alcohol use; parenting and psychosocial factors
(prof SA Reijneveld, dr AF de Winter)

Tovote KA

Acceptance or challenge? Psychological treatments for depressive symptoms in patients with diabetes
(prof R Sanderman, prof PMG Emmelkamp, prof TP Links)

Trippolini M

Evaluation of functioning in workers with whiplash-associated disorders and back pain
(prof MF Reneman, prof PU Dijkstra, prof JHB Geertzen)

For more 2014 and earlier theses visit our website